

AMENDMENTS

In the Claims:

1. (Currently Amended) An intervertebral disc prosthesis, comprising two cover plates and a prosthesis core, the prosthesis core being connected to one of the cover plates by complementary undercut connection profiles on the one of the cover plates plate and the prosthesis core,

wherein the connection profile on the prosthesis core includes a leading dorsal portion and a lateral portion relative to an implanted position of the prosthesis, the dorsal portion formed along a dorsal edge of the prosthesis core relative to the implanted position, the dorsal portion having a single projecting tip in a triangular configuration, the projecting tip pointing in a direction of insertion into the one of the cover plates plate, the dorsal portion and comprising a pair of first profile sections forming sides of the triangular configuration that meet at an angle not greater than 150°, the lateral portion formed along lateral edges of the prosthesis core relative to the implanted position, the lateral portion comprising a pair of second profile sections being arranged in an anteroposterior direction relative to the implanted position, the pair of first profile sections meeting the pair of second profile sections.

2. (Canceled)

3. (Currently Amended) The intervertebral disc prosthesis according to claim 1, wherein ~~the profile sections are arranged on a dorsal side of the intervertebral disc prosthesis core and are~~ is held in engagement with each other the one cover plate by an engaging structure arranged on a ventral side of the intervertebral disc prosthesis in an core and the one cover plate relative to the implanted position.

4-5. (Canceled)